TELANGANA STATE LEVEL POLICE RECRUITMENT BOARD

SUB INSPECTOR OF POLICE - 2011

PREVIOUS PAPER - 4

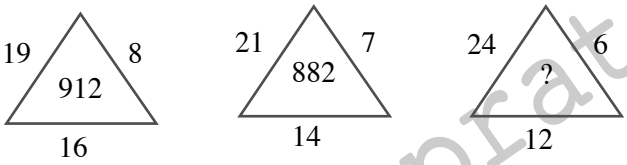
1. The letters of the word RACTOR are in disorder. If they are arranged in proper order, the name of a vegetable is formed. What is the last letter of the word so formed?

(a) A (b) T (c) C (d) R

2. If the first and second letters of the word "CORRESPONDENCE" were interchanged, as well as the third and fourth letters, the fifth and the sixth and so on, then which of the following shall be the tenth letter counting from right?

(a) S (b) P (c) R (d) N

3. Which one of the following number occupy the blank space?



(a) 864 (b) 234 (c) 1356 (d) 832

4. Madhav ranks seventeenth in a class of thirty one. What is his rank from the last?

(a) 13 (b) 14 (c) 15 (d) 16

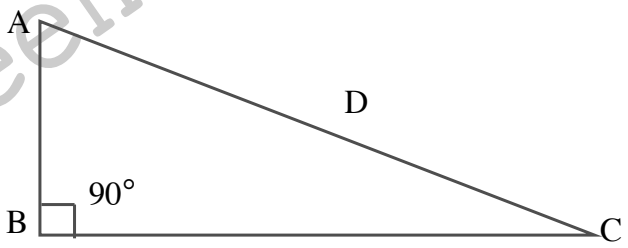
5. How many 5's are there in the following number series which are either preceeded by six of following by 7 ? 3 1 2 4 5 6 7 5 6 5 7 2 4 7 5 6 6 5 7

(a) 5 (b) 3 (c) 2 (d) 4

6. How many numbers from 1 to 100 are such each which is divisible by 8 and whose atleast one digit is '8'?

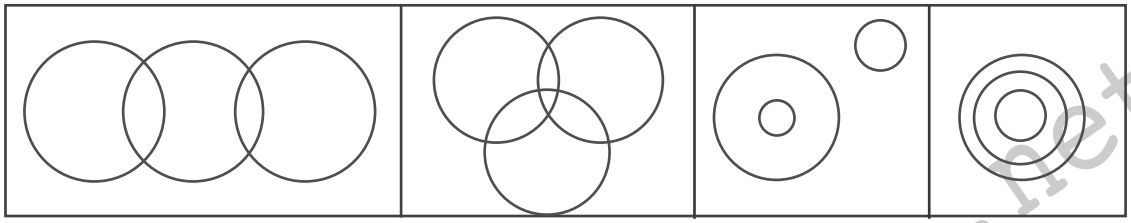
(a) 4 (b) 3 (c) 8 (d) 6

7. D ABC is a right angle triangle. AB = 10 m, BC = 24 m. D is exactly located at the middle of AC. What is the distance between CD?



(a) 17 m (b) 7 m (c) 8.5 m (d) 13 m

8. Which one of the following diagram correctly represents the relationship among the following classes, Hyderabad, India, Asia.



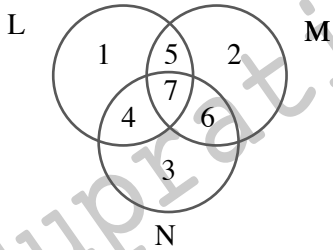
(a) (b) (c) (d)

9. Which number indicates goods speakers who are neither post graduates not doctors?

L : Good Speakers

M: Post graduates

N: Doctors



(a) 6 (b) 2 (c) 5 (d) 1

10. A is father of C and D is son of B. E is brother of A. If C is sister of D, how is B related to E?

(a) Brother-in-law (b) Sister-in-law (c) Husband (d) Daughter

11. If 5th january is Thursday of a leap year, then 2nd March will be

(a) Tuesday (b) Wednesday (c) Thursday (d) Friday

12. What fraction is equal to $83\frac{1}{3}\%$?

(a) $\frac{3}{5}$ (b) $\frac{5}{7}$ (c) $\frac{5}{6}$ (d) $\frac{1}{6}$

13. Express $\frac{5}{7}$ as a percentage

(a) $56\frac{1}{3}\%$ (b) $79\frac{1}{7}\%$ (c) $77\frac{1}{9}\%$ (d) $11\frac{3}{7}\%$

14. What is the value of 15% of 700 + 17% of 400?

(a) 341 (b) 371 (c) 731 (d) 173

15. The population of a city increases by 20% every year. If the present population is 72,000, then what was the population one year ago?

(a) 52,000 (b) 55,000 (c) 57,600 (d) 62,000

16. The sum of a number and two numbers preceeding it is equal to 50. Find the number:

(a) $\frac{53}{3}$ (b) 29 (c) 27 (d) 24

17. If 2x + 7 = 19, what is the value of 'x'

(a) 3 (b) 4 (c) 6 (d) 5

18. An article is bought for Rs. 800 and sold for Rs. 900. The gain percent is

(a) 10% (b) $11\frac{1}{2}\%$ (c) $10\frac{1}{2}\%$ (d) $12\frac{1}{2}\%$

19. By selling a radio for Rs. 2000, a person got a profit of 25%. What was the cost price?

(a) Rs. 1500 (b) Rs. 1800 (c) Rs. 1700 (d) Rs. 1600

20. The marked price of an article is Rs. 400. A person bargained for a discount of 25% and bought the product. What was the selling price?

(a) Rs. 425 (b) Rs. 375 (c) Rs. 250 (d) Rs. 300

21. By selling an article at 20% loss, a retailer loss Rs. 160. What was the cost price?

(a) Rs. 1000 (b) Rs. 800 (c) Rs. 900 (d) Rs. 1600

22. The ratio of cost prices of two articles is 2 : 3. The profit on them is 10% and 20% respectively. What is overall profit percentage on selling these two items?

(a) 16% (b) 12% (c) 6% (d) none

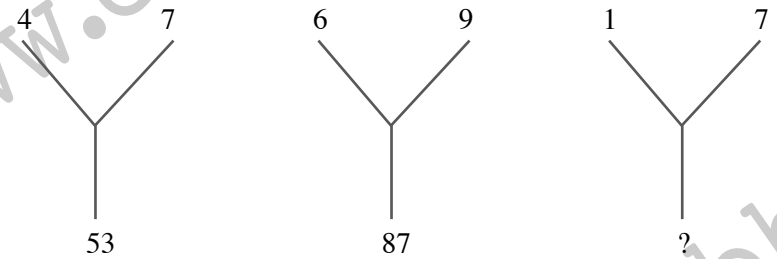
Directions (23 – 26): Select an appropriate answer to replace question mark among the choices given

23.

5	7	6	10
8	11	13	18
14	19	27	?
26	35	55	66

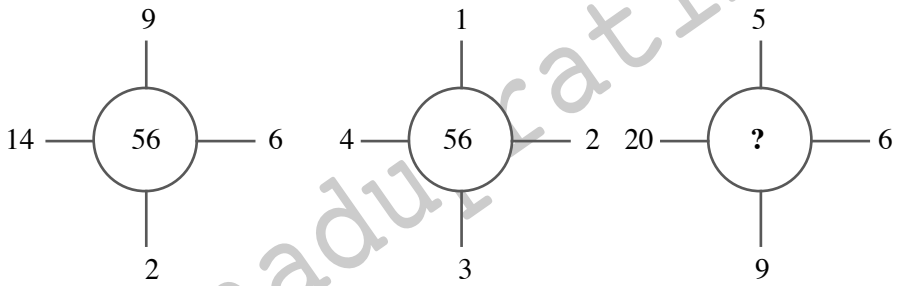
(a) 34 (b) 36 (c) 30 (d) 38

24.



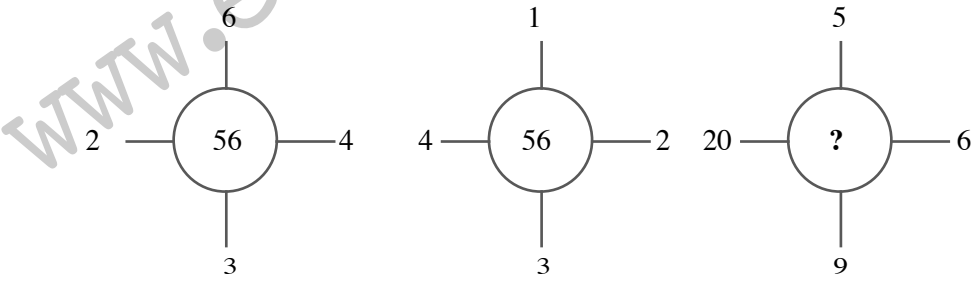
(a) 49 (b) 50 (c) 48 (d) 55

25.



(a) 210 (b) 450 (c) 70 (d) 150

26.



(a) 235 (b) 141 (c) 144 (d) none

Directions (27–31): In each of the following questions, there are two statements (A) and (B) followed, by four conclusions numbered I, II, III and IV. Though the statements are at variance from commonly known facts, you have to assume them true. Read the conclusions, and based on the information given in statements (A) and (B) decide which of the option follow.

27. Statements:

A. All pens are books

B. All books are tables

Conclusions:

I. All pens are tables

II. All tables are pens

III. All books are pens

IV. Some tables are books

(a) only II and III follow

(b) only I and IV follow

(c) only I and III follow

(d) All conclusions follow

28. Statements:

A. No train is a truck

B. No bus is a truck

Conclusions:

I. No train is a truck

II. No truck is a bus

III. Some trains are trucks

IV. Some trucks are trains

(a) only I follows

(b) only II and III follow

(c) All conclusions follow

(d) All conclusions follows

29. Statements:

A. Some candles are not sticks

B. All pencils are sticks

Conclusions:

I. Some candles are pencils

II. Some candles are not pencils

III. All candles are sticks

IV. Some sticks are candles

(a) only III follows

(b) only IV follows

(c) only I follows

(d) only II follows

30. Statements:

A. No man is good

B. Some good men are saints

Conclusions:

I. Some men are not saints

II. All men are saints

III. Some good men are not saints

IV. All saints are men

(a) only I follows (b) only I and III follows

(c) only IV follows (d) only III follows

31. Statements:

A. No apples is an orange

B. All bananas are oranges

Conclusions:

I. Apples are bananas

II. Some apples are bananas

III. NO apples is bananas

IV. Some bananas are apples

(a) only III follows (b) only I and II follows

(c) only IV follows (d) only II follows

Direction (32 – 36): In each question below is given a statement follows by two assumptions numbered I and II. As assumptions is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer (A) if only assumption I is implicit

Give answer (B) if only assumption II is implicit

Give answer (C) if either I and II is implicit

Give answer (D) if neither I nor II is implicit

Give answer (E) if both I and II are implicit

32. Statement:

If Abhi has finished reading the instructions then let him begin the activities accordingly

Assumptions:

I. Abhi would understand the instructions

II. Abhi is capable of performing the activities

33. Statement:

We need not worry about errors but we must try to learn from our errors

Assumptions:

I. Errors may take place when we are carrying out certain work

II. We are capable of benefitting from the past and improve our chances of error free work.

34. Statement:

It is desirable to put the child in school at the age of 5 or 50.

Assumptions:

I. At that age the child reaches appropriate level of development and ready to learn.

II. The schools do not admit children after six years of age

35. Statement:

No regular funds have been provided for welfare activities in this year's budget of the factory.

Assumptions:

I. The factory does not desire to carry out welfare activities this year.

II. Budgetory provision is necessary for carrying out welfare activities.

36. Statement:

The government has decided to reduce the custom duty on computer peripherals

Assumptions:

I. The domestic market price of computer

II. The domestic manufacturers may oppose the decision

Directions (37 – 41) Read the following information carefully and answer the questions

A, B, C, D and E are five cars while P, Q and R are three motor cycles. A is the fastest of the cars and R is the slowest of the motorcycle, C is consumer than D and Q but cheaper than B. Among cars, A is not the costliest. D is cheaper than E and three is no car whose cost lies between the cost of two. E is faster than three of the cars and all the motor cycles. Q is costlier than R but cheaper than P, who is faster than Q.

37. Which of the following cars cannot stand exactly in the motor position among cars as far as their cost is concerned?

(a) A (b) B (c) C (d) D

38. Which of the following statements is true about the motorcycles?

(a) P is the costliest as well as the fastest motorcycle.

(b) The fastest motorcyle is not the costliest motorcycle

(c) The slowest motorcycle is also the cheapest motorcyle

(d) Both (A) and (C)

39. If P is costlier than E, how many cars are cheaper than P?

(a) 1 (b) 2 (c) 3 (d) Nil

40. If P is cheaper than A which is not costlier than E, which of these is the cheapest of all the cars and motor cycles put together

(a) R (b) Q (c) E (d) B

41. Which of these is the slowest of the cars, if B and C are faster than D?

(a) B (b) D (c) E (d) A

42. Find the value of x, where $x \frac{2}{3} + \frac{3}{2} + \frac{5}{3^2} + \frac{8}{3^2}$

(a) $1\frac{13}{27}$ (b) $2\frac{11}{27}$ (c) $1\frac{8}{27}$ (d) $1\frac{23}{27}$

43. If $x + y = 5$ and $x - y = 1$, what is the value of $x^2 - y^2$

(a) 4 (b) 6 (c) 7 (d) 5

44. The average of x and y is 20. The average of y and z is 30. The average of x and z is 10. What is the average of x, y and z put together?

(a) 10 (b) 15 (c) 20 (d) 30

45. If $x^2 = 1296$, what is the value of x?

(a) 24 (b) 34 (c) 36 (d) 26

46. The ratio of the present ages of a man and his son is 7 : 3. If the age difference between both of them is 32 years. What is the age of the son?

(a) 33 (b) 27 (c) 24 (d) 30

47. A number exceeds one fourth of itself by 30. Find the number

(a) 20 (b) 30 (c) 25 (d) 40

48. If the sum of three consecutive even numbers is 30, what is the middle number?

(a) 8 (b) 10 (c) 14 (d) 12

49. If $8x + 5 - 3x = 2x + 11$, what is the value of x?

(a) 6 (b) 2 (c) 5 (d) 4

50. In a class of 50 students, the number of girls is 20. The average weight of the boys is 50 kg. and the class average weight is 40 kg. What is the average weight of girls?

(a) 30 kg (b) 35 kg (c) 20 kg (d)25 kg

51. The sum of two numbers is 33 product of these numbers is 266. Find the smaller number

(a) 14 (b) 16 (c) 19 (d) 18

52. The sum of four consecutive integers is 102. Find the product of extremes

(a) 648 (b) 486 (c) 846 (d) 468

53. Three years ago the average age of A and B was 18 years. What is their present average age?

(a) 24 (b) 18 (c) 15 (d) 21

54. The total cost of 8 pens and 10 erasers is Rs. 136. The total cost of 20 pens and 10 erases is Rs. 256. What is the cost of a pen?

(a) Rs. 8 (b) Rs. 6 (c) Rs. 12 (d) Rs. 10

55. If nine is added to both the numerator and the denominator of a certain fraction, the fraction becomes $\frac{3}{4}$. If the denominator is 15, what is the numerator?

(a) 6 (b) 9 (c) 7 (d) 8

56. The sum of the ages of a man and his son is 53 years. The difference between their ages is 27 years. What is the age of son?

(a) 10 (b) 11 (c) 12 (d) 13

57. If the side of a square and the radius of a circle are equal. What is the ratio of their areas? (Area of Square: Area of Circle)

(a) 1 : 2 (b) 2 : 1 (c) 1 : 1 (d) 7 : 22

58. If x = 24 then y = 40. Find out the value of x for y = 130

(a) 70 (b) 72 (c) 74 (d) 78

59. Find the two numbers which are in the ratio of 7 : 15 and whose difference is 72.

(a) 56 & 128 (b) 63 & 135 (c) 49 & 105 (d) 35 & 75

60. The incomes of P and Q are in the ratio of 2 : 3 and their expenses are in the ratio of 3 : 5. The difference between their incomes is Rs. 5,000. If the difference between their expenses is Rs. 4,000. What is the ratio between their savings?

(a) 1 : 2 (b) 1 : 3 (c) 2 : 3 (d) 4 : 5

61. A man distributes his property of Rs. 6,00,000 between his two sons. The share of his first son is thrice the second son's share. Find the share of the second son.

(a) Rs. 1,00,000 (b) Rs. 1,50,000 (c) Rs. 2,00,000 (d) none

62. How many prime numbers are there between 80 and 100?

(a) 3 (b) 4 (c) 5 (d) 8

63. Which of the following number lies between $\frac{1}{2}$ and $\frac{1}{3}$

(a) $\frac{7}{24}$ (b) $\frac{22}{96}$ (c) $\frac{25}{48}$ (d) $\frac{95}{192}$

64. The square root of 87616

(a) 244 (b) 254 (c) 256 (d) 296

65. What is the value of $13 \times 5 + 3 \div 57 - 2$

(a) 20 (b) 35 (c) 63 (d) 104

66. How many of the following numbers are divisible by 9?

(a) 1 (b) 2 (c) 3 (d) 4

67. What is 16% of Rs. 1250?

(a) Rs. 125 (b) Rs. 50 (c) Rs. 100 (d) Rs. 200

68. What is 50% of 40% of 1200 gms?

(a) 450 gms. (b) 100 gms. (c) 300 gms. (d) 240 gms.

69. The length of a rectangle is increased by 30%, where as the breadth is decreased by 25%. What is the consequent percentage change in the area of rectangle?

(a) 2.5% increase (b) 25% decrease

(c) 5% increase (d) 5% decrease

70. A number when increased by 17% becomes 2340. What is the number?

(a) 1,800 (b) 3,000 (c) 2,000 (d) 1,500

71. In an election contacted by two candidates, the candidate who gets 43% is rejected by a margin of 2,856 votes. Find the total number of votes polled given that all the votes polled are valid votes.

(a) 20,400 (b) 20,820 (c) 16,500 (d) 40,800

72. A and B invested Rs. 30,000 and Rs. 40,000 respectively in a business for one year. If they earned Rs. 7,700 at the end of one year, find the B's profit

(a) R.s 3,800 (b) Rs. 3,300 (c) Rs. 4,400 (d) Rs. 4,000

73. Sunil and Ravi invested 20,000 and Rs. 25,000 respectively to start a business. Ravi withdraws after 10 months and Sunil gets Rs. 12,000 as his share after one year. Find Ravi's share.

(a) Rs. 24,500 (b) Rs. 14,500 (c) Rs. 12,000 (d) Rs. 15,000

74. A, B and C start a business with Rs. 4,000, Rs. 5000 and Rs. 6000 respectively. B and C leave after 9 and 8 months respectively. Who gets the smallest share of profit at the end of one year?

(a) A (b) B (c) Both A and C (d) Both B and C

75. Among three partners, A, B and C, A and B together invested a sum equal to the capital of C. If they made a total profit of Rs. 36,000 after one year, then find C's profit

(a) Rs. 12,000 (b) Rs. 18,000 (c) Rs. 15,000 (d) Rs. 10,000

76. X starts a business with Rs. 3,500 and after 5 months Y joins him. After a year the profit is divided in the ratio of 4 : 5. How much did Y contribute?

(a) Rs. 6,000 (b) Rs. 5,600 (c) Rs. 4,500 (d) Rs. 47,500

77. The simple interest on a certain sum of money at 4% per annum for 3 years is Rs. 2,800. The sum is

(a) Rs. 24,000 (b) Rs. 23,33.31 (c) Rs. 18,000 (d) Rs. 16,000

78. How much will Rs. 7,500 amount to in two years at the rate of 12% per annum simple interest?

(a) Rs. 8,900 (b) Rs. 9,000 (c) Rs. 9,300 (d) Rs. 9,100

79. A sum amounts to Rs. 8,640 in three years at 20% per annum compound interest. Find out the sum

(a) Rs. 7,500 (b) Rs. 5,000 (c) Rs. 6,000 (d) Rs. 4,500

80. If the simple interest on a sum of Rs. 10,000 at 15% per annum is Rs. 7,500. Find out the time period

(a) 5 years (b) 4 years (c) 6 years (d) 3 years

81. A certain sum is lent at 11% per annum simple interest for six years. The interest received is less than the sum by Rs. 2,720. What is the sum?

(a) Rs. 3,580 (b) Rs. 8,000 (c) Rs.9,600 (d) Rs. 4121.21

82. A man walks from A to B at 8 kmph and comes back from B to A on a cycle at 12 kmph. What is his average speed for the entire journey.

(a) 100 kmph (b) 8.8 kmph (c) 9.6 kmph (d) 10.2 kmph

83. The average of 25 numbers is 10. If each number is added by 5, then what will be the new average?

(a) 10 (b) 15 (c) 11 (d) 13

84. The average of five numbers is 20 and the average of three of three numbers is 15. Find the average of the other two numbers

(a) 30.5 (b) 28.5 (c) 26.5 (d) 27.5

85. In a class of 60 students, the average weight of 30 students is x kg and that of the remaining is y kg. Find the average weight of the class

(a) (x + y) kg (b) 30 kg (c) $\frac{x+y}{2}$ (d) $\frac{xy}{2}$

86. The average weight of 11 items is 8 kg. If one item is sold, then the average weight decreases by $\frac{1}{2}$kg. The weight of the sold item is

(a) 13 kg (b) 12 kg (c) 13.5 kg (d) 12.5 kg

87. 12 kg of sugar costing Rs. 20 per kg and 6 kg of sugar costing 30 per kg are mixed. What is the price per kg of the resultant mixture?

(a) Rs. 266 k (b) Rs. 24.50 (c) Rs. 22.67 (d) Rs. 21.33

88. In what ratio must salt at Rs. 2.20 per kg be mixed with salt at Rs. 10 per kg such that the mixture costs Rs. 4.30 per kg

(a) 4 : 3 (d) 3 : 2 (c) 19 : 7 (d) 3 : 1

89. A man bought 200 oranges and apples for Rs. 1,200. If the cost per orange is Rs. 2.70 and the cost per apples is Rs. 1.50, then find the number of oranges and apples he bought

(a) 40,160 (b) 80,120 (c) 125,75 (d) 750

90. Lilly travels 200 km in 12 hours. Part of it in her car at 45 kmph and the rest on her cycle at 15 kmph. Find the ratio of distances travelled by Lilly in car on her cycle

(a) 1 : 2 (b) 3 : 17 (c) 3 : 2 (d) 2 : 5

91. Students of a class collected money for a polio campaign. Each boy donated Rs. 50 and each girl donated Rs. 60. If the class strength is 50 and the total amount collected is Rs. 2,800. Find the number of girls in the class

(a) 10 (b) 20 (c) 30 (d) 40

92. Find the factors of the quadratic expression $x^2 - 5x + 6$

(a) $(x - 1)(x - 6)$ (b) $(x + 2)(x - 3)$ (c) $(x - 2)(x + 3)$ (d) $(x - 2)(x - 3)$

93. The roots of the quadratic equation $x^2 + 3x - 40 = 0$

(a) 5, −8 (b) 8, −5 (c) −5, −8 (d) 5, 8

94, The sum of a natural number and is reciprocal is $\frac{122}{11}$. The number is

(a) 9 (b) 12 (c) 11 (d) 13

95. If one root of the quadratic equation $x^2 + 11x + k = 0$ is 4, find the value of K

(a) 60 (b) −15 (c) 8 (d) 15

96. The sum of the squares of three consecutive integers is 110. Find out the middle term

(a) 3 (b) 1 (c) 6 (d) 7

97. Find the three terms of an arithmetic series such that their sum is 30 and product is 910

(a) 8, 10, 12 (b) 7, 10, 13 (c) 910 (d) 5, 13, 14

98. Between 100 and 200, how many integers are divisible by 11?

(a) 10 (b) 9 (c) 8 (d) 7

99. Find the 10^{th} term of the arithmetic progression 1, 3, 5, 7

(a) 15 (b) 17 (c) 21 (d) 19

100. Find out the sum of first 15 natural numbers

(a) 120 (b) 130 (c) 110 (d) 100

101. Which term of the series 2, 6, 18, 54 is equal to 1458?

(a) 5^{th} (b) 6^{th} (c) 7^{th} (d) 14^{th}

102. Four men can do a work in twelve days. If there are six men doing the same work, in how many days the work will be completed

(a) 7 (b) 8 (c) 6 (d) 9

103. A can do a piece of work in 10 days and B can do the same work in 15 days. In how many days will they complete the work together?

(a) 6 (b) 5 (c) 4 (d) 7

104. A can do a piece of work in 12 days and B can do the same work in 18 days. If A works for three days. then in how many days will the remaining work be completed by 'B'

(a) $13\frac{1}{2}$ (b) $10\frac{1}{2}$ (c) $16\frac{1}{2}$ (d) 12

105. A student can solve 75 questions in one hour. Another student can solve 100 questions in two hours. In how many minutes do they together solve 250 questions?

(a) 90 (b) 75 (c) 100 (d) 120

106. A and B can do work in 72 days. B and C in 120 days. A and C in 90 days. In how many days can A, B, C together do the work?

(a) 80 (b) 100 (c) 60 (d) 120

107. The speed of bus is 72 kmph. What is its speed in meters per second?

(a) 15 (b) 18 (c) 20 (d) 22

108. If a person's speed is 45 kmph, then what is the distance travelled by him in 24 seconds?

(a) 240 m (b) 360 m (c) 250 m (d) 300 m

109. The speed of the train is 12 m/sec. and it takes 15 seconds to cross a telegraph pole. What is the length of the train?

(a) 180 m (b) 1500 m (c) 150 m (d) 200 m

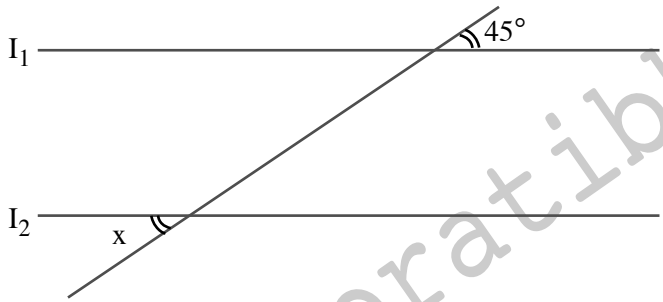
110. The speed of the train is 72 kmph and its length is 200 m. How much time it will take to cross a platform of 1000 m?

(a) 10 sec. (b) 60 sec. (c) 40 sec. (d) 30 sec.

111. A train which is 350 m long travels 90 kmph. In what time does it cross a man running at 36 kmph in the opposite direction?

(a) 20 sec (b) 15 sec (c) 10 sec (d) 12 sec

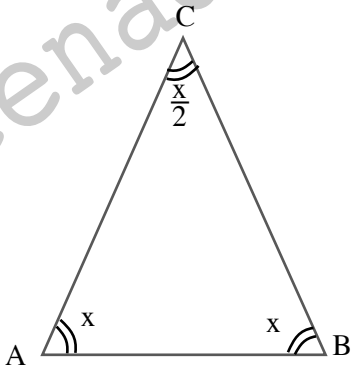
112.



In the above figure I_1 and I_2 are parallel lines find the value of x

(a) 135° (b) 225° (c) 45° (d) 30°

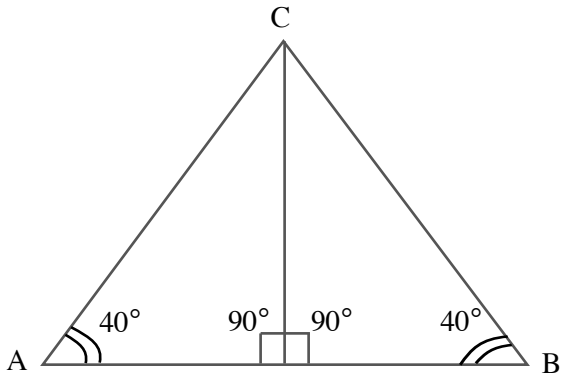
113.



In the above Δ ABC find the ∠ACB

(a) 30° (b) 40° (c) 36° (d) 45°

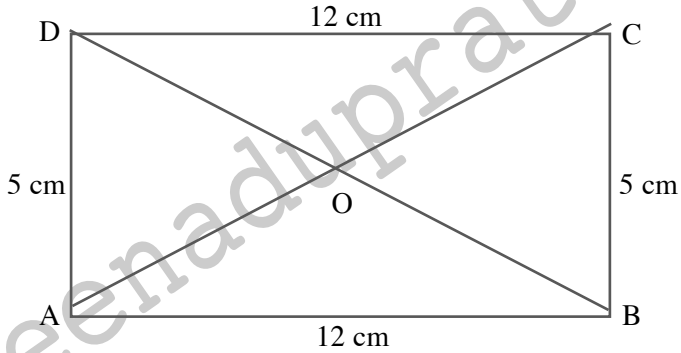
114.



In the above triangle find the ACB

(a) 50° (b) 80° (c) 70° (d) 45°

115.



In the above rectangle ABCD find out 'BO'

(a) 6 cm (b) 7 cm (c) 6.5 cm (d) 5.5 cm

116.

In the above parallelogram find out BCD

(a) 40° (b) 140° (c) 220° (d) 160°

117. Find the area of an isosceles triangle whose base is 10 cm and each of the equal sides is 6 cm

(a) $\sqrt{11}$ cm^2 (b) $\sqrt[2]{11}$ cm^2 (c) $\sqrt[3]{11}$ cm^2 (d) $\sqrt[4]{11}$ cm^2

118. What is the area of a circle whose radius is 14 cm?

(a) 616 cm^2 (b) 716 cm^2 (c) 816 cm^2 (d) 216 cm^2

119. The area of a triangle whose side are 10 m, 12 m, 18 m is

(a) 45 $\sqrt{3}$ m^2 (b) 40 $\sqrt{2}$ m^2 (c) 50 $\sqrt{3}$ m^2 (d) 60 $\sqrt{3}$ m^2

120. What is distance covered by a wheel of radius 23 cm in 10 revolutions?

(a) 1445 cm (b) 1210 cm (c) 1500 cm (d) 1760 cm

121. The area of an equilateral triangle is $16\sqrt{3}$ m^2. Find out the side of the triangle in cms?

(a) 4 (b) 5 (c) 6 (d) 8

122. A straight wall of 18 feet length and 10 feet height to be painted both sides. What is the cost of painting at Rs. 4 per square feet?

(a) Rs. 1,400 (b) Rs. 1,300 (c) Rs. 1,200 (d) Rs. 1,440

123. The radius of a cylinder is 7 cm and its height is 30 cm. What is the volume of the cylinder in cubic centimeters?

(a) 4620 (b) 3920 (c) 4680 (d) 4900

124. Two sides of trapezium are 16 cm and 4 cm. The height of the trapezium is 6 m. Find out the area of trapezium

(a) 40 m^2 (b) 42 m^2 (c) 36 m^2 (d) 60 m^2

125. A solid metallic cuboid of dimensions 9 cm × 4 cm. What is the total surface area of the cuboid?

(a) 264 (b) 144 (c) 228 (d) 196

126. Find out the ratio between the areas equilateral triangle and a square of having perimeter of 34 cm.

(a) $5\sqrt{3} : 2$ (b) $196\sqrt{3} : 441$ (c) $2 : 3\sqrt{3}$ (d) $4 : 3\sqrt{3}$

127. In how many ways can be reset the word "LENGTH" can be arranged?

(a) 24 (b) 720 (c) 120 (d) 36

128. Two dice are thrown simultaneously. The probability of getting the sum on two dice are 11 is

(a) $\frac{1}{36}$ (b) $\frac{3}{36}$ (c) $\frac{2}{36}$ (d) $\frac{4}{36}$

129. Two coins are tossed at a time. The probability of getting one head and one tail will be

(a) $\frac{1}{4}$ (b) $\frac{3}{4}$ (c) $\frac{2}{4}$ (d) $\frac{1}{3}$

130. The arithmetic mean of 15, 20, 17 is

(a) 8 (b) 20 (c) 15 (d) 17

131. The median of 5, 13, 18, 21, 25, 27 is

(a) 13.5 (b) 18 (c) 21.5 (d) 35.5

132. If A is B's brother, B is C's sister and C is D's father then is A's.....

(a) Brother (b) Sister (c) Nephew (d) Data inadequate

133. Pointing to a gentleman, Deepak said, "His only brother is the father of my daughter's father". How is the gentleman related to Deepak?

(a) Father (b) Grand father (c) Uncle (d) Brother-in-law

134. Pointing a person, a man said to a lady, "His mother is the only daughter of your father"

(a) Sister (b) Mother (c) Wife (d) Daughter

135. A cube of side 3 cm is coloured red on all sides. It is then cut into smaller cubes of 1 cm side. How many cubes will have two faced coloured?

(a) 9 (b) 8 (c) 16 (d) 12

136. Which of the following is a leap year?

(a) 1986 (b) 2002 (c) 2100 (d) 498

137. How many Mondays are there in a particular month having 31 days of a particular year, if the month ends on Wednesday?

(a) 4 (b) 5 (c) 3 (d) 31

138. Rama was born on 2008, March 3rd. The Republic Day (India) of the year fell on Saturday. On which day of the week Rama was born?

(a) Tuesday (b) Sunday (c) Monday (d) Friday

139. What is the angle between wo hand of a clock at 2 : 15 P.M?

(a) $12\frac{1}{2}$ (b) $27\frac{1}{2}$ (c) $22\frac{1}{2}$ (d) $17\frac{1}{2}$

140. In the following alphabet series which is the 7th letter to the left of 10th letter from your left?

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

(a) A (b) C (c) B (d) E

141. If the first and sixth letters of the word "CREDENTIALS", were interchanged, also the second and seventh letters and so on, which of the following would be 8th letter from your right?

(a) A (b) T (c) D (d) C

Direction (142 – 146): In each of the following questions, find the alternatives which will replace the question mark

142. MAD : JXA : : RUN : ?

(a) OSQ (b) PRJ (c) UXQ (d) ORK

143. TAME : OVHZ : : LUDO : ?

(a) QZIT (b) GQAM (c) GPYJ (d) GOYJ

144. SONG : GONT : : FELT : ?

(a) TELE (b) TMDG (c) TLEG (d) ELTG

145. CFDG : LOMP : : HKIL : ?

(a) QTRU (b) QRTU (c) PSQT (d) RUSV

146. TGIR : QJLO : : PKMN : ?

(a) NMKP (b) MNPK (c) OLNM (d) QJKP

Direction (147 – 151): These questions are based on the following table. The table gives the number of students in each class and the percentage of students in it who like Cricket, Volley Ball, Basket Ball and Football.

Class	Number of students	Cricket	Volley ball	Basket ball	Foot ball
6	120	60%	70%	50%	60%
7	140	50%	60%	60%	50%
8	160	40%	65%	55%	45%
9	180	65%	75%	65%	55%
10	240	70%	80%	75%	45%

147. How many students in the school like Cricket?

(a) 436 (b) 432 (c) 491 (d) 511

148. By what percentage is the number of students who like Volley ball in class 6 more/less than those who like Basket ball in class 10?

(a) 40% (b) 50% (c) 53.33% (d) 56.67%

149. The number of students who like cricket in class is what percentage of the number of students who like football in class?

(a) 88% (b) 93.5% (c) 95.6% (d) 97.2%

150. In how many of the given classes can more than 90% students like all the three games?

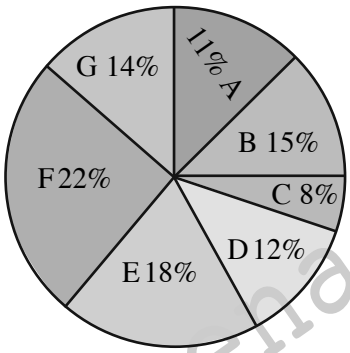
(a) 4 (b) 3 (c) 1 (d) Nil

151. What can be the maximum percentage of students in class 6 who do not like any of the given games?

(a) 40% (b) 10% (c) 50% (d) 30%

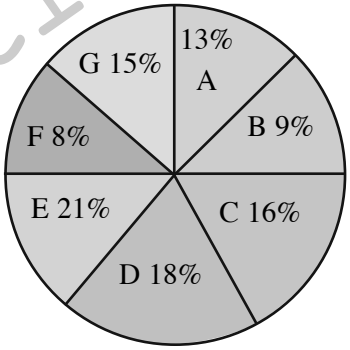
Directions (152 – 156): Study the following pie chart and answer the questions

Distribution of male population state wise



Total male population: 39 lakhs

Distribution of female population state wise



Total female population: 32 lakhs

152. What is the ratio between male population and female population respectively of the states A and B jointly?

(a) 704 : 507 (b) 429 : 288 (c) 352 : 507 (d) 507 : 352

153. What is the ratio between female population of state G and the male population of states E respectively?

(a) 39 : 40 (b) 40 : 39 (c) 17 : 18 (d) 19 : 20

154. What is the population of state 'E' in lakhs?

(a) 11.14 (b) 13.74 (c) 6.52 (d) 14.11

155. How much percent is the female population of the state 'C' of the total population of the same state? (To the nearest integer)

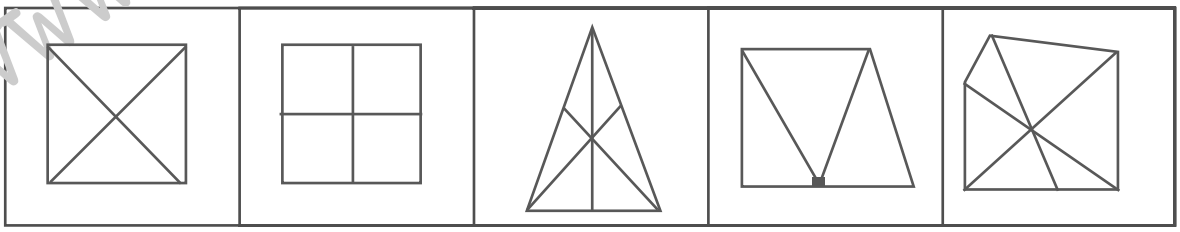
(a) 48 (b) 56 (c) 62 (d) 62.15%

156. What is the average population approximately of the given state (in lakhs)

(a) 6.5 (b) 8 (c) 4.6 (d) 5.6

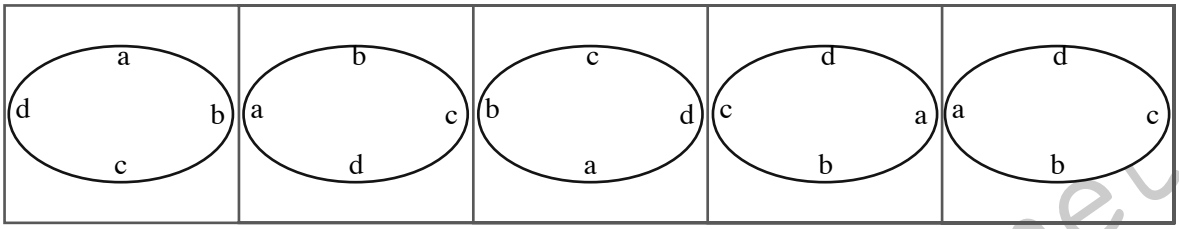
Direction (157 – 160): Which figure does not below to the group in each of the questions 157 to 160.

157.



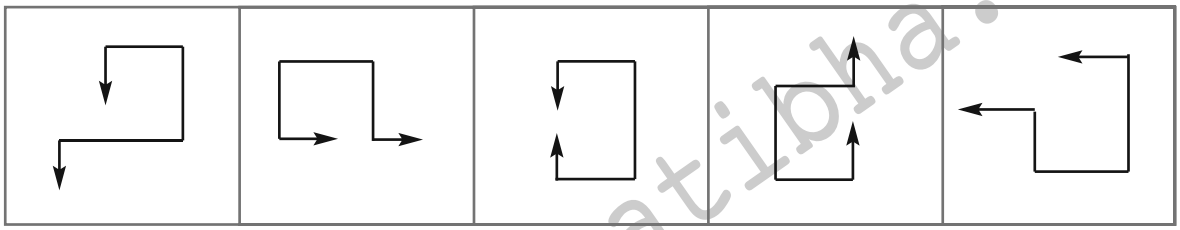
(a) I (b) II (c) III (d) IV

158.



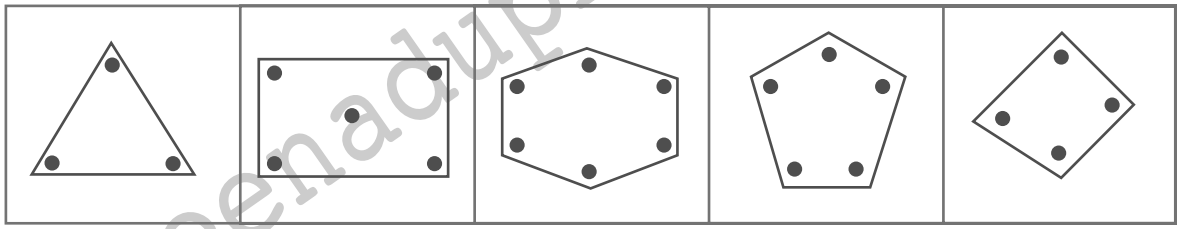
(a) I (b) II (c) III (d) IV

159.



(a) I (b) II (c) III (d) IV

160.



(a) I (b) II (c) III (d) IV

161. A purse contain one rupees, five rupees, ten rupee and twenty rupee notes in the ratio of 1 : 2 : 5 : 7. Their total value is Rs. 201. Find the number of ten rupee notes.

(a) 20 (b) 40 (c) 5 (d) 10

162. If A : B = 2 : 3 and B : C = 5 : 7 then A : B : C is

(a) 10 : 15 : 21 (b) 2 : 3 : 7 (c) 2 : 5 : 7 (d) 2 : 15 : 7

163. If the ratio of the sides of a triangle is 1 : 2 : 3 and its perimeter is 42 cm, then the measure of the smallest side of the triangle will be

(a) 6 cm (b) 5 cm (c) 7 cm (d) 8 cm

164. How many square tiles of side 2 ft each remembered to cover the floor of a rectangular room of dimensions 12 ft × 18 ft?

(a) 27 (b) 35 (c) 42 (d) 54

165. In how many revolutions will a wheel with a diameter of 28 cm cover a distance of 880 m?

(a) 6 (b) 8 (c) 10 (d) 1000

166. A square has a side 'a'. If the side is doubled i.e. 2a, what is the ratio between the old and new areas of square?

(a) 1 : 2 (b) 1 : 4 (c) 1 : 3 (d) 1 : 5

Direction (167 – 169): What comes in place of the question mark(s) in each sequence in questions 67 to 169.

167. $a^2\ b^3\ a^3\ b^3\ a^3\ b^3$, $a^4\ b^4\ a^4\ b^4\ a^4\ b^4$

(a) $a^5\ b^5\ a^5\ b^5\ a^5\ b^5\ a^5\ b^5$ (b) $a^5\ b^5\ a^5\ b^5\ a^5\ b^5$

(c) $a^5\ b^5\ a^5\ b^5\ a^5\ b^5\ a^5\ b^5\ a^5\ b^5$ (d) $a^5\ b^5\ a^5\ b^5\ a^5\ b^5\ a^5\ b^5\ a^5\ b^5\ a^5\ b^5$

168. +−×++−××+++.....????

(a) +−+× (b) +++.....××× (c) ×××+ (d) ××+×

169. a 13 dm e 57 gm ???, m 1315 o

(a) i44*l* (b) i70*l* (c) i911*l* (d) i119*l*

170. PENCIL : NEPLIC : : MANGET : ?

(a) AMNEGT (b) NMATGE (c) GNAMET (d) NAMTEG

171. DEAR : FGCT : : READ : ?

(a) FGCF (b) TGCF (c) TSFC (d) TCGF

172. 18 : 342 : : 21 : ?

(a) 441 (b) 399 (c) 484 (d) 462

173. INDIA : ASIA : : ENGLAND : ?

(a) ENGLISH (b) EUROPE (c) LONDON (d) AUSTRALIA

174. January : November : : March : ?

(a) July (b) January (c) June (d) December

175. BODY : HAND : :

(a) Pin : Nail (b) Chair : Table

(c) Automobile : Wheel (d) Thorn : Flower

176. PISTOL : TRIGGER : :

(a) Sword : Scabbard (b) Gun : Holster (c) Motor : Switch (d) Rifle : Soldier

177. RADIUM : CURIE : :

(a) Museum : Artefalt (b) Atom: Galileo

(c) Telephone : Bell (d) Drama : Shakespeare

178. CANE : BAMBO : :

(a) Wood : Woodpecker (b) Timber : Tree

(c) Rubber : Malaysia (d) Elephant : Tusk

179. OCEAN : SALINE : :

(a) Honey : Bee (b) Sugar : Sweet

(c) Rose : Red (d) Heaven : Paradise

180. B 6 8 D

J 14 17 M

N – – S

(a) 17, 22 (b) 16, 21 (c) 15, 20 (d) 14, 19

181. S 16 10 V

L 28 20 P

F – – J

(a) 30, 38 (b) 38, 30 (c) 40, 32 (d) 32, 40

182.

G	39	33	J
C	47	41	F
R	–	–	Y

(a) 17, 3 (b) 3, 17 (c) 15, 1 (d) 4, 12

183. In a certain code language,

"Kew xas huma deko" means "She is eating apples"

"Kew tep qua" means "She sells toys" and "Sul lim deko" means 'I like apples".

Which words in the language means "She" and "Apples"

(a) 'Xas' and deko' (b) 'She' – 'kew'

(c) 'Kew' and 'deko' (d) 'kew' and 'Xas'

184. In a certain code language, '743' means "mangoes are good" '657' means "Eat good food" and '934' means "Mangoes are ripe" Which digit means "ripe" in that language?

(a) 5 (b) 4 (c) 9 (d) 7

185. If BOX is coded as CDPQYZ, what will be the last two letters of word in the same code for HERO?

(a) N, M (b) JFGSTPQ (c) P, Q (d) Q, P

186. If dust is called air, air is called fire, fire is called water, water is called colour, colour is called rain and rain is called "dust", where do fish live?

(a) Dust (b) Water (c) Colour (d) Fire

Directions (187 – 191): Read the following statements carefully and answer the questions given below each of them

Six persons, a, b, c, d, e, f were playing a card game, a's father, mother the uncle were in the group. There were two females, 'b' the mother of 'a' got more points than her husband, 'd' got more points in the game than 'e' but less than 'f'. Niece of 'e' got the lowest points. Father of 'a' got more points than 'f' but still could not win the game.

187. Who won the game?

(a) a (b) b (c) c (d) d

188. Who got the lowest points?

(a) a (b) b (c) c (d) d

189. Who is the husband of 'b'?

(a) f (b) c (c) d (d) e

190. Who was the lady in the group other than 'b'?

(a) c (b) d (c) e (d) none

191. Who stood second in the game?

(a) a (b) c (c) e (d) d

192. The dimensions of a rectangular plot are 175 m* 100m. Allowing a width of 25 m all around and inside the plot, a house is constructed. What is the area of the plot unoccupied by the house? (in m^2)

(a) 7500 (b) 10,250 (c) 5000 (d) 8000

193. 2, 3, 5, 7, 11, 13?

(a) 0 (b) 15 (c) 17 (d) 19

194. 1, 2, 6, 15, 31, 56?

(a) 81 (b) $1^2 + 2^3 + 3^2$ (c) 85 (d) 87

195. 1, 4, 27, 256, 3125?

(a) 42345 (b) 46656 (c) 36366 (d) 47566

196. 0, 1, 1, 2, 4, 8, 16, 32?

(a) 48 (b) 64 (c) 96 (d) 80

197. If $\frac{3}{4}$ P = $\frac{5}{7}$ Q, then P : Q is

(a) 15 : 28 (b) 12 : 35 (c) 8 : 11 (d) $\frac{20}{4}$

198. In an examination, there were 2,000 candidates, out of which 900 were boys and rest were girls. If 32% of the boys and 38% of the girls passed, then the percentage of failures is

a) 35.3% b) 64.7% c) 68.5% d) 70%

199. Neha walks 1 Km to East and then she turns to South and walks 5 km. Again she turns to East and walks 2 Km. After this she turns to North and walks 9 km. Now how far is she from her starting point?

a) 3 km b) 4 km c) 5 km d) 7 km

200. A and B are brothers, C and D are sisters, A's son is D's brother. How is 'B' related to 'C'?

a) Father b) Brother c) Uncle d) Grand father

ANSWERS

1-b; 2-a; 3-a; 4-c; 5-a; 6-b; 7-d; 8-d; 9-d; 10-b; 11-d; 12-c; 13-c; 14-d; 15-c; 16-a; 17-c; 18-d; 19-d; 20-d; 21-b; 22-d; 23-a; 24-b; 25-c; 26-d; 27-b; 28-b; 29-d; 30-b; 31-b; 32-c; 33-d; 34-a; 35-b; 36-d; 37-d; 38-d; 39-d; 40-a; 41-b; 42-d; 43-d; 44-d; 45-c; 46-c; 47-d; 48-b; 49-b; 50-d; 51-a; 52-a; 53-d; 54-d; 55-b; 56-d; 57-d; 58-d; 59-b; 60-d; 61-b; 62-a; 63-d; 64-d; 65-c; 66-c; 67-d; 68-d; 69-a; 70-c; 71-a; 72-c; 73-c; 74-a; 75-b; 76-d; 77-b; 78-c; 79-b; 80-a; 81-b; 82-a; 83-b; 84-d; 85-c; 86-a; 87-a; 88-c; 89-d; 90-b; 91-b; 92-d; 93-a; 94-c; 95-a; 96-c; 97-c; 98-b; 99-d; 100-a; 101-b; 102-b; 103-a; 104-b; 105-d; 106-c; 107-c; 108-d; 109-a; 110-a; 111-c; 112-c; 113-c; 114-b; 115-c; 116-a; 117-d; 118-a; 119-b; 120-a; 121-d; 122-d; 123-a; 124-d; 125-c; 126-d; 127-b; 128-c; 129-c; 130-c; 131-b; 132-d; 133-c; 134-b; 135-d; 136-d; 137-d; 138-a; 139-c; 140-b; 141-a; 142-d; 143-c; 144-c; 145-a; 146-b; 147-c; 148-c; 149-d; 150-d; 151-d; 152-b; 153-d; 154-b; 155-d; 156-d; 157-d; 158-c; 159-c; 160-b; 161-c; 162-a; 163-c; 164-d; 165-b; 166-b; 167-a; 168-a; 169-c; 170-d; 171-b; 172-b; 173-b; 174-b; 175-c; 176-c; 177-c; 178-b; 179-b; 180-a; 181-b; 182-a; 183-b; 184-c; 185-b; 186-c; 187-b; 188-a; 189-c; 190-b; 191-c; 192-b; 193-b; 194-b; 195-b; 196-b; 197-d; 198-b; 199-c; 200-c.